#### **Product Description:**

Tektronix TDS524A Oscilloscope, Digital: 500MHz,500MSa/s,2ch (Stand alone)

The Tektronix TDS524A oscilloscope is a graph-displaying device – it draws a graph of an electrical signal. In most applications, the graph shows how signals change over time: the vertical (Y) axis represents voltage and the horizontal (X) axis represents time. The intensity or brightness of the display is sometimes called the Z axis.

The Tektronix TDS524A oscilloscope's simple graph can tell you many things about a signal, such as: the time and voltage values of a signal, the frequency of an oscillating signal, the "moving parts" of a circuit represented by the signal, the frequency with which a particular portion of the signal is occurring relative to, other portions, whether or not a malfunctioning component is distorting the signal, how much of a signal is direct current (DC) or alternating current (AC) and how much of the signal is noise and whether the noise is changing with time.

#### Performance Characteristics of the TDS524A

Form Factor	Benchtop
Bandwidth	500 MHz
Number of Channels	2 ch
Simultaneous Channels	2 ch
Simultaneous Maximum Sampling Rate/ch	250 MSa/s
One ch. only max. sampling rate	500 MSa/s
Max. Single Shot bandwidth	500 MHz
Max. Record Length	15000 pt/sec
Min. Vertical Sensitivity	1 mV/div
Maximum Vertical Sensitivity	10 V/div
Channel to Channel Delay	250 ps
Rise time	700 ps
Number of Bits	8 bits
Input Impedance	1 MOhm
Input Impedance (alternate)	50 Ohm
Input Coupling	AC,DC,GND
Maximum Input Voltage	400 Vrms
Main time base - lowest	500 ps/div
Main time base - highest	10 s/div
Timebase accuracy	.005 %
Trigger Source	Internal
Trigger Modes	Auto,Edge,Logic,Normal,Pulse,Single

Minimum Glitch Trigger	2 ns
Display Type	Color CRT
Display Size	17.78 cm
Display modes	Dot,Persistence,Vector
Display Update Rate	130 wv/sec

## Programmability/Connectivity of the TDS524A

User Interface	Proprietary
Test Pattern Storage	10 Patterns
Novram data storage	Yes
Data Storage Type	FDD
Programming Language	GPIB
External Video Out	Yes

#### **TDS524A AppNotes**

The XYZ's of Oscilloscopes

#### **TDS524A Life Cycle Data**

Out of Production Nov-01-2000

## **TDS524A Compliance**

CE Compliance	Compliant
UL Compliance	Compliant

## **TDS524A Power Requirements**

Input Power Universal (Auto Sense and Switch)

# **TDS524A Physical Dimensions**

Width: 445 mm(17.51 in)
Height: 193 mm(7.59 in)
Length: 432 mm(17 in)
Weight: 14.1 kg(31.08 lb)

#### **Options for TDS524A**

Option	US List Price
05 / HDTV Video Trigger	\$1,495
1C / TELCOM TEMPLATE TELECOMMUNICATI	\$499
1K / Model K420 Instrument Cart	\$730
1M / 50K Point Record Length	\$995

1R / Rackmount Kit	\$400
22 / Add 2 P6139A Probes	\$560
23 / Add 2 P6205 Active probes	\$1,190
25 / ADD 4 SMD PROBE P6563AS 20X 500	\$800
2D / Deletes 2 ea P6139A 10X passive probes	No Charge
2P / Tek Phaser 200e Color Printer	\$2,695
3P / TEK Phaser Color Inkjet Printe	\$1,750
95 / CAL DATA REPORT TEST DATA	\$150
96 / CERTIFICATE OF CALIBRATION	\$50
C5 / 5 Years Calibration Services	\$1,050
R2 / Service Assurance: 2 Years Repair Protection	\$400